

PTO 1T-1A-6WC-3

PRELIMINARY

INSPECTION WORKCARDS

**INSPECTION OF AIRCRAFT PYLON AND ENGINE PRIOR TO
INSTALLATION**

T-1A AIRCRAFT

(BEECH)

F33657-89-C-0002

DISTRIBUTION STATEMENT - Distribution authorized to the Department of Defense and US DoD Contractors only for Administrative or Operational Use 15 August 1992. Other requests shall be referred to ASC/YTLZ, Wright-Patterson AFB, Ohio 45433-7211.

Published Under Authority of the Secretary of the Air Force

15 AUGUST 1992

PTO 1T-1A-6WC-3

WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C. SEC 2751, et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App 2401 et seq. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.

HANDLING AND DESTRUCTION NOTICE - Handle in compliance with the distribution statement and destroy by any method that will prevent disclosure of the contents or reconstruction of the document.

INSERT LATEST CHANGED CARD. DESTROY SUPERSEDED CARDS.

LIST OF EFFECTIVE CARDS

NOTE: THE PORTIONS OF THE TEXT AFFECTED BY THE CHANGES ARE INDICATED BY A VERTICAL LINE IN THE OUTER MARGIN OF THE CARD.

Dates of issue for original and changed cards are:

Original..... 015 Aug 92
Change.....1 1 Oct 00

TOTAL NUMBER OF CARDS IN THIS PUBLICATION IS 20 CONSISTING OF THE FOLLOWING:

Card	*Change	Card	*Change	Card	*Change
No.	No.	No.	No.	No.	No.

.....

PUBLICATION NUMBER PTO 1T-1A-6WC-3	INSPECTION REQUIREMENTS INTRODUCTION	FIGURE	CHANGE NO.	CARD NO. I-003

PUBLICATION NUMBER PTO 1T-1A-6WC-3		INSPECTION REQUIREMENTS INTRODUCTION	FIGURE	CHANGE NO.	CARD NO. I-004
<p style="text-align: center;">INTRODUCTION</p> <p>1. These workcards provide minimum inspection requirements for the aircraft pylon and engine in checklist form and will be used as a guide performing the inspection to make sure that no item is overlooked. Work assignment information is provided at both the top and bottom of each workcard for convenience in filing and selecting workcards to make work assignments. The inspection requirements are arranged by work areas utilizing separate workcards for each type of mechanic or specialist required to perform the inspection and present a logical sequence of operation within the area covered by each workcard.</p> <p>2. The work unit codes assigned in these workcards were obtained from TO 1T-1A-06. If work unit codes for further breakdown of components not listed in these workcards are required, refer to TO 1T-1A-06.</p> <p>3. During accomplishment of the specific requirements directed by this workcard set, maintenance personnel should observe the equipment being inspected, the components and wiring in the surrounding area for defects or irregularities not within the scope of the requirements.</p> <p>4. The "observe" requirements under the inspection concept are defined as visual inspections for obvious defects. An "obvious defect" is a discrepancy which is easily seen and/or readily detectable although "observe" requirements are visual inspections. It may be necessary to physically verify the security/condition of an item by using the senses of touch or smell. The visual inspection of an item will only require the use of equipment required for observation (e.g. flashlight, mirror and/or maintenance platforms).</p> <p>5. For the purpose of clarification of terms used in this set of workcards the following definitions are given.</p> <p>SPECIFIED Refers to a definite amount, operation, or limitation which has been established and is contained in applicable directives.</p> <p>EVIDENCE Is an indication of an existing or impending unsatisfactory condition.</p> <p>SECURITY Means the component is properly mounted or attached to related equipment, including applicable safetying.</p> <p>ACCESSIBLE Is the term applied to equipment that may be inspected without further disassembly or removal of panels, cowling, etc., other than those required to accomplish the more specific requirements applicable to the particular inspections.</p> <p>EXCESSIVE Is a term used to describe conditions when specific limitations have not been established. A condition is excessive if it has progressed to the degree that, if not corrected, could result in the failure or malfunction of a component prior to the next scheduled accomplishment of the requirement which directed attention to the condition.</p> <p>6. This inspection is accomplished on the pylon and engine prior to engine installation. The inspection is a visual examination of engine components and the pylon to assure that no defects exist which would impair the engine installation or operation.</p> <p>7. For detailed instructions on the use of these workcards, other applicable forms, and charts, refer to 00-20 series technical orders. The work area diagram indicates the location, numeric code, and title of the work areas in this set of workcards.</p> <p>8.</p>					

PUBLICATION NUMBER PTO 1T-1A-6WC-3	INSPECTION REQUIREMENTS INTRODUCTION	FIGURE	CHANGE NO.	CARD NO. I-004
<p>Recommendations for improvements to the technical order shall be submitted on AFTO Forms 27 or 22. Technical Order System Publication Change Request, in accordance with TO 00-5-1. Completed forms shall be sent to ASC/YTLZ ATTN: T-1A TOMA, Wright-Patterson AFB, OH 45433-7211.</p> <p>WORK AREA DIAGRAM</p>				

CARD NO. 1-001		WORK AREA(S)		TYPE MECH RQR	MECH NO.	CARD TIME	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.	
MAN MIN	WORK AREA	WORK UNIT CODE		PYLONS			INSPECTION REQUIREMENTS	ELECTRICAL POWER OFF	SERVICE	FIGURE	CARD NO. 1-001
		SYS	SUB								
1				INTRODUCTION This inspection is accomplished on the pylon prior to engine installation. The inspection is a visual examination of the pylon to make sure that no defects exist that would impair the engine installation or operation.							
CARD NO. 1-001		WORK AREA(S)		TYPE MECH RQR	MECH NO.	CARD TIME	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.	

CARD NO. 1-002		WORK AREA(S) 7A		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:03	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.
MAN MIN	WORK AREA	WORK UNIT CODE		PYLONS	INSPECTION REQUIREMENTS	ELECTRICAL POWER OFF	SERVICE	FIGURE	CARD NO. 1-002	
		SYS	SUB							
003	-	7A	11	EA0	1. Placards and decals for presence, security, and legibility.					
		7A	11	EB0	2. Electrical harness clamps, connectors, terminals, and wire for corrosion, general condition, and security. (71-50-00)					
		7A	11	EA0	3. Pylon nacelle seal for deterioration, tears, and missing sections. (54-30-00)					
		7A	11	EA0	4. Firewall for damage, deterioration of sealant, and corrosion. (54-30-00)					
		7A	11	ED0	5. Engine attach fittings for cracks, corrosion, evidence of damage, and loose or missing fasteners. (54-40-00)					
		7A	11	EA0	6. Firewall plumbing for corrosion, evidence of damage, security of fittings, and loose or missing fasteners. (54-40-00)					
		7A	11	EA0	7. Firewall electrical connectors for security and wiring for evidence of damage. (54-40-00)					
	-	7A	11	EA0	8. Pylons for damage and foreign objects. (54-30-00)					
CARD NO. 1-002		WORK AREA(S) 7A		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:03	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.

CARD NO. 2-001		WORK AREA(S) 7A		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:03	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.	
MAN MIN	WORK AREA	WORK UNIT CODE		ENGINE			INSPECTION REQUIREMENTS	ELECTRICAL POWER OFF	SERVICE	FIGURE	CARD NO. 2-001
		SYS	SUB								
	1			INTRODUCTION This inspection is accomplished on the engine prior to installation. The inspection is a visual examination of engine components to make sure that no defects exist which would impair the engine installation or operation.							
CARD NO. 2-001		WORK AREA(S) 7A		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:03	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.	

CARD NO. 2-002		WORK AREA(S) 7B		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:06	PUBLICATION NUMBER PTO 1T-1A-6WC-3		CHANGE NO.
MAN MIN	WORK AREA	WORK UNIT CODE		ENGINE	INSPECTION REQUIREMENTS	ELECTRICAL POWER OFF	SERVICE	FIGURE	CARD NO. 2-002
		SYS	SUB						
006	7B	23	A00	<div>ENGINE</div> <div>1. Fuel, oil, and hydraulic lines and connectors for wear, chafing, nicks, dents, routing,evidence of leakage, loose or missing fasteners, and security. (70-00-00)</div> <div>2. Electrical harness clamps, connectors, terminals, and wire for corrosion, generalcondition, and security. (71-50-00)</div> <div>3. Starter generator for installation, security, and visible damage. (80-10-10)</div> <div>4. Bleed air valves for installation and security. (30-20-00 and 75-10-00)</div> <div>5. Hydromechanical metering unit, bleed valve actuator, and fuel pump, for installation,security, and leakage. (73-10-14, 73-10-22, 73-20-11)</div> <div>6. Engine gearbox and hydraulic pump for installation, security, evidence of damage,and leakage. (29-10-20 and 70-00-00)</div> <div>7. Engine electronic control for installation and security. (73-20-10)</div> <div>8. Oil cooler, oil pump, and oil filter housing for installation, security, evidence ofdamage, and leakage. (73-10-00)</div> <div>9. Flow divider valve for installation, security, and evidence of damage. (73-10-17)</div> <div>10. Engine mounts for installation, security, corrosion, and evidence of damage. (71-00-00)</div> <div>11. Ignition exciter for installation, security, evidence of damage, and general condition.(74-20-10)</div> <div>12. Engine intake and generator intake duct for installation, evidence of damage, andsecurity. (71-60-00)</div> <div>13. Tailcone for installation, evidence of damage, fluid leakage, and security. (78-10-10)</div> <div>14. Engine vibration accelerometer and fault monitor recorder for condition and security.(77-30-00)</div> <div>15. Engine drain tubing for nicks, dents, cracks, evidence of leakage, and security.(71-70-00 and 79-20-00)</div> <div>16. Engine fire detection sensor cable and nozzle for obstructions and plumbing for cracks,dents, and security. (26-11-00)</div>					
	7B	23	BAE						
	7B	23	AAA						
	7B	41	EA0						
	7B	23	AB0						
	7B	23	AA0						
	7B	23	BAM						
	7B	23	AD0						
	7B	23	ABR						
	7B	23	AA0						
	7B	23	ACA						
	7B	11	ECA						
	7B	11	ECK						
	7B	23	AF0						
	7B	23	000						
-	7B	49	AA0						
CARD NO. 2-002		WORK AREA(S) 7B		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:06	PUBLICATION NUMBER PTO 1T-1A-6WC-3		CHANGE NO.

CARD NO. 1-001		WORK AREA(S) 7B		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:06	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.	
MAN MIN	WORK AREA	WORK UNIT CODE		NACELLE/COWLING			INSPECTION REQUIREMENTS	ELECTRICAL POWER OFF	SERVICE	FIGURE	CARD NO. 1-001
		SYS	SUB								
1	This inspection is accomplished on the nacelle/cowling after engine installation. The inspection is a visual examination of nacelle/cowling to make sure that no defects exist which would impair the engine operation.			INTRODUCTION							
CARD NO. 1-001		WORK AREA(S) 7B		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:06	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.	

CARD NO. 1-002		WORK AREA(S) 7C		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:03	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.	
MAN MIN	WORK AREA	WORK UNIT CODE		NACELLE/COWLING			INSPECTION REQUIREMENTS	ELECTRICAL POWER OFF	SERVICE	FIGURE	CARD NO. 1-002
		SYS	SUB								
- 003 -	7C 7C 7C 7C	11 11 11 11	EC0 HC0 EC0 EC0	NACELLE/COWLING							
				1. Cowling panels for evidence of damage, loose or missing fasteners, proper fit, and security. (71-10-00)							
				2. Access doors for security, evidence of damage, loose or missing fasteners, and proper latching. (05-00-00)							
				3. Placards and decals for presence, security, and legibility.							
				4. Nacelles/cowling for foreign objects. (71-10-00)							
CARD NO. 1-002		WORK AREA(S) 7C		TYPE MECH RQR APG	MECH NO.	CARD TIME 00:03	PUBLICATION NUMBER PTO 1T-1A-6WC-3			CHANGE NO.	

